

02230028BB

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of

K. Hayashi, et. al.

Serial No.: (not yet assigned) Group Art Unit: not yet assigned
(Divisional application of 10/442,209)

Filed: Concurrently Examiner not yet assigned

For: Magneto-Resistance Effect Element, Magneto-Resistance Effect Head,
 Magneto-Resistance Transducer System, and Magnetic Storage System

Commissioner for Patents
P.O. Box 1450
Alexandria 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Under the provisions of 37 C.F.R. 1.97 through 1.99 and pursuant to applicant's duty of disclosure under 37 C.F.R. 1.56, applicants respectfully bring the following documents, listed on the attached form PTO-1449, to the attention of the Examiner in charge of the above-identified application. The references cited in the attached PTO-1449 are readily available to the Examiner in co-pending parent U.S. application Serial No: 10/442,209. Thus, according to the rules of practice, these references are not provided herein, but are listed on the PTO-1449 form and should be considered by the Examiner. If the Examiner is unable to obtain the listed references, applicant will gladly provide such references upon notification by the Examiner in charge of the examination of the above-identified application.

These citations do not constitute an admission that the references are relevant or material to the claims. They are only cited as constituting related art of which the applicant is aware.

02230028BB

It is respectfully requested that the listed references be considered by the Examiner and formally made of record in this application.

Please charge any deficiencies in fees and credit any overpayment of fees to attorney's Deposit Account No. 50-2041.

Respectfully submitted,



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Registration No.: 32,635

Date: March 18, 2003
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703/787-94000

Please associate this
Application with
Customer No. 30743

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

Docket Number (Optional)

02230028BB

Application Number

not assigned

Applicant(s)

Hayashi et al.

Filing Date

concurrently

Group Art Unit

not assigned

U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		US-6,097,579 A	08-2000	Gill, Hardayal Singh			
		US-6,333,842 B1	12-2001	Nobuyuki et al.			
		US-6,400,536 B1	06-2002	Gill, Hardayal Singh			
		US-6,452,204 B1	09-2002	Ishiwata et al.			

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
		199-0062685	7-26-99	Korea				✓
		6-236527	8-23-94	Japan			✓	
		10-162327	06-19-98	Japan			abstract	
		10-255231	09-25-98	Japan			abstract	
		2-61572	03-01-90	Japan				x

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

		Korean Office action dated August 5, 2003 with Japanese translation of the Korean Action and English translation of the Japanese translation
		J. Moodera et al., "Ferromagnetic-insulator-ferromagnetic tunneling: Spin-dependent tunneling and large magnetoresistance in trilayer junctions (invited)", J. Appl. Phys. 79 (8), April 15, 1996
		D. Thompson et al., "Thin film magnetoresistors in memory, storage, and related applications", IEEE Transactions on Magnetics, Vol. Mag-11, No. 4, July 1975

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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(Use several sheets if necessary)

Docket Number (Optional)

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A	US-6,146,776	11-2000	Fukuzawa et al.			
	B	US-6,181,537	01-2001	Gill, Hardayal Singh			
	C	US-6,275,362	08-2001	Pinarbasi, Mustafa			
	D	US-6,306,266	10-2001	Metin et al.			
	E	US-6,325,900	12-2001	Komuro et al.			
	F	US-6,411,476	06-2002	Lin et al.			
	G	US-6,469,879	10-2002	Redon et al.			
	H	US-6,487,056	11-2002	Gibbons et al.			
	I	US-2001/0014001 A2	08-2001	Aoshima et al.			
	J	US-2002/0167767 A1	11-2002	Jayasekara, Wipul			
	K	US-2003/0035256 A1	02-2003	Hayashi et al.			
	L	US-					
	M	US-					

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
	N	JP 11175920 A	07-1999	Japan				
	O	JP 11316919 A	11-1999	Japan				
	P	JP 2000003507 A	01-2000	Japan				
	Q	JP 2000105912 A	04-2000	Japan				
	R	EP 953849 A2	11-1999	European Patent				
	S							

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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